PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)



OR FURTHER ACTION	See Form PCT/IPEA/416	
emational filing date (day/morth/year) 18.03.2004	Priority date (day/month/year) 18.03.2003	
onal classification and IPC		
	inary examination report, established	

SHO		DENKO P	K.K.
1.	Autho	ority under Arti	aternational preliminary examination report, established by this International Preliminary Examining cle 35 and transmitted to the applicant according to Article 36.
2.			sts of a total of 3 sheets, including this cover sheet.
3.	This	report is also ac	companied by ANNEXES, comprising:
	a. T.	a total of _	sheets, as follows:
		and	ets of the description, claims and/or drawings which have been amended and are the basis of this report dor sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the ministrative Instructions).
		bey	ets which supersede earlier sheets, but which this Authority considers contain an amendment that goes cond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the oplemental Box.
	ъ. Г	containing	ndicate type and number of electronic carrier(s)) a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the tal Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4.	This	report contains	indications relating to the following items:
	V	Box No. I	Basis of the report
		Box No. II	Priority
	Γ	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Г	Box No. IV	Lack of unity of invention
	V	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Г	Box No. VI	Certain documents cited
	Г	Box No. VII	Certain defects in the international application
	Г	Box No. VIII	Certain observations on the international application

Date of submission of the demand	Date of completion of this report		
15.10.2004	15.07.2005		
Name and mailing address of the IPEA/JP	Authorized officer	3L	8610
Japan Patent Office	YOICHI NAGASAKI	L4	
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 Ext.	3337	

International application No. PCT/JP2004/003697

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No.	1 Basis of the report		
	h regard to the language, this report is based or	on the international application in the language	ge in which it was filed, unless
Care	This report is based on translations from the	original language into the following language	
	which is the language of a translation furni		
	international search (under Rules 12.3 ar		
	publication of the international applicati		
	international preliminary examination (u	under Rules 55.2 and/or 55.3)	
_ ****		the state of the s	
	h regard to the elements of the international nished to the receiving Office in response to an		
_	disnea to the receiving Office in response to an area not annexed to this report):	invitation under Article 14 dre rejerred to in	inis report as originally filed
	- '		
V	the international application as originally fil	led/furnished	
Γ	the description:	·	
	pages		as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
r	the claims:		
	pages		as originally filed/furnished
	pages*	as amended (together with	any statement) under Article 19
	pages*	received by this Authority on	
	pages*	received by this Authority on	
r	the drawings:	_	
	pages		as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
Г	a sequence listing and/or any related table(s	s) - see Supplemental Box Relating to Seque	ence Listing.
- June			
3.	The amendments have resulted in the cancel	llation of:	
	the description, pages		
	the claims, Nos.		
	the drawings, sheets/figs	·	 .
	the sequence listing (specify):		
	any table(s) related to sequence listing	ng (specify):	
4. 🔽	This report has been established as if (some made, since they have been considered to g (Rule 70.2(c)).	of) the amendments annexed to this report go beyond the disclosure as filed, as indica	and listed below had not been ated in the Supplemental Box
	the description, pages		
	T discolation Name		
	any table(s) related to sequence listing		
* If ita-	a 4 applies, some or all of those sheets may be m		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/003697

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			ve step or industrial applicability;
1. Statement			
Novelty (N)	Claims	1-18	YES
	Claims		NO
Inventive step (IS)	Claims	5-18	YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-18	YES
	Claims		NO NO

2. Citations and explanations(Rule 70.7)

1) The following documents have been considered for the purpose of this report:

D1=JP 5-7958 A(SHOWA ALUMINUM CORPORATION)1993.01.19

D2=Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No.201345/1984 (Laid-open No.111633/1986) (MEIDENSHA CORPORATION) 1986.07.15

2) The subject matter of claim 1-4 does not appear to involve an inventive Step in view of the documents D1, D2.

D1 discloses a tube blank correcting member 8 for use in fabricating a heat exchanger.

D2 discloses a tube blank correcting member 16, which has blank fitting slits, and an open end portion of the slit flares toward the opening with a gradually increasing width.

The skilled person in the art would easily conceive the idea of applying the above facts in D2 to the invention disclosed in D1.